

PLASMA-LYTE A - sodium chloride, sodium gluconate, sodium acetate, potassium chloride and magnesium chloride injection, solution

Baxter Healthcare Corporation

DESCRIPTION

PLASMA-LYTE A Injection pH 7.4 (Multiple Electrolytes Injection, Type 1, USP) is a sterile, nonpyrogenic isotonic solution in a single dose container for intravenous administration. Each 100 mL contains 526 mg of Sodium Chloride, USP (NaCl); 502 mg of Sodium Gluconate ($C_6H_{11}NaO_7$); 368 mg of Sodium Acetate Trihydrate, USP ($C_2H_3NaO_2 \cdot 3H_2O$); 37 mg of Potassium Chloride, USP (KCl); and 30 mg of Magnesium Chloride, USP ($MgCl_2 \cdot 6H_2O$). It contains no antimicrobial agents. The pH is adjusted with sodium hydroxide. The pH is 7.4 (6.5 to 8.0).

PLASMA-LYTE A Injection pH 7.4 (Multiple Electrolytes Injection, Type 1, USP) administered intravenously has value as a source of water, electrolytes, and calories. One liter has an ionic concentration of 140 mEq sodium, 5 mEq potassium, 3 mEq magnesium, 98 mEq chloride, 27 mEq acetate, and 23 mEq gluconate. The osmolarity is 294 mOsmol/L (calc). Normal physiologic osmolarity range is 280 to 310 mOsmol/L. Administration of substantially hypertonic solutions may cause vein damage. The caloric content is 21 kcal/L.

The VIAFLEX plastic container is fabricated from a specially formulated polyvinyl chloride (PL 146 Plastic). The amount of water that can permeate from inside the container into the overwrap is insufficient to affect the solution significantly. Solutions in contact with the plastic container can leach out certain of its chemical components in very small amounts within the expiration period, e.g., di-2-ethylhexyl phthalate (DEHP), up to 5 parts per million. However, the safety of the plastic has been confirmed in tests in animals according to USP biological tests for plastic containers as well as by tissue culture toxicity studies.

CLINICAL PHARMACOLOGY

PLASMA-LYTE A Injection pH 7.4 (Multiple Electrolytes Injection, Type 1, USP) has value as a source of water and electrolytes. It is capable of inducing diuresis depending on the clinical condition of the patient.

PLASMA-LYTE A Injection pH 7.4 (Multiple Electrolytes Injection, Type 1, USP) produces a metabolic alkalizing effect. Acetate and gluconate ions are metabolized ultimately to carbon dioxide and water, which requires the consumption of hydrogen cations.

INDICATIONS AND USAGE

PLASMA-LYTE A Injection pH 7.4 (Multiple Electrolytes Injection, Type 1, USP) is indicated as a source of water and electrolytes or as an alkalizing agent.

PLASMA-LYTE A Injection pH 7.4 (Multiple Electrolytes Injection, Type 1, USP) is compatible with blood or blood components. It may be administered prior to or following the infusion of blood through the same administration set (i.e., as a priming solution), added to or infused concurrently with blood components, or used as a diluent in the transfusion of packed erythrocytes. PLASMA-LYTE A Injection and 0.9% Sodium Chloride Injection, USP are equally compatible with blood or blood components.

CONTRAINDICATIONS

None known

WARNINGS

PLASMA-LYTE A Injection pH 7.4 (Multiple Electrolytes Injection, Type 1, USP) should be used with great care, if at all, in patients with congestive heart failure, severe renal insufficiency, and in clinical states in which there exists edema with sodium retention.

PLASMA-LYTE A Injection pH 7.4 (Multiple Electrolytes Injection, Type 1, USP) should be used with great care, if at all, in patients with hyperkalemia, severe renal failure, and in conditions in which potassium retention is present.

PLASMA-LYTE A Injection pH 7.4 (Multiple Electrolytes Injection, Type 1, USP) should be used with great care in patients with metabolic or respiratory alkalosis. The administration of acetate or gluconate ions should be done with great care in those conditions in which there is an increased level or an impaired utilization of these ions, such as severe hepatic insufficiency.

The intravenous administration of PLASMA-LYTE A Injection pH 7.4 (Multiple Electrolytes Injection, Type 1, USP) can cause fluid and/or solute overloading resulting in dilution of serum electrolyte concentrations, overhydration, congested states, or pulmonary edema. The risk of dilutional states is inversely proportional to the electrolyte concentrations of the injection. The risk of solute overload causing congested states with peripheral and pulmonary edema is directly proportional to the electrolyte concentrations of the injection.

In patients with diminished renal function, administration of PLASMA-LYTE A Injection pH 7.4 (Multiple Electrolytes Injection, Type 1, USP) may result in sodium or potassium retention.

PRECAUTIONS

Clinical evaluation and periodic laboratory determinations are necessary to monitor changes in fluid balance, electrolyte concentrations, and acid base balance during prolonged parenteral therapy or whenever the condition of the patient warrants such evaluation.

PLASMA-LYTE A Injection pH 7.4 (Multiple Electrolytes Injection, Type 1, USP) should be used with caution. Excess administration may result in metabolic alkalosis.

Caution must be exercised in the administration of PLASMA-LYTE A Injection pH 7.4 (Multiple Electrolytes Injection, Type 1, USP) to patients receiving corticosteroids or corticotropin.

Pregnancy

Teratogenic Effects

Pregnancy Category C

Animal reproduction studies have not been conducted with PLASMA-LYTE A Injection pH 7.4 (Multiple Electrolytes Injection, Type 1, USP). It is also not known whether PLASMA-LYTE A Injection pH 7.4 (Multiple Electrolytes Injection, Type 1, USP) can cause fetal harm when administered to a pregnant woman or can affect reproduction capacity. PLASMA-LYTE A Injection pH 7.4 (Multiple Electrolytes Injection, Type 1, USP) should be given to a pregnant woman only if clearly needed.

Pediatric Use

Safety and effectiveness of PLASMA-LYTE A Injection pH 7.4 (Multiple Electrolytes Injection, Type 1, USP) in pediatric patients have not been established by adequate and well controlled trials, however, the use of electrolyte solutions in the pediatric population is referenced in the medical literature. The warnings, precautions and adverse reactions identified in the label copy should be observed in the pediatric population.

Geriatric Use

Clinical studies of PLASMA-LYTE A Injection pH 7.4 (Multiple Electrolytes Injection, Type 1, USP) did not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently from younger subjects. Other reported clinical experience has not identified differences in responses between the elderly and younger patients. In general, dose selection for an elderly patient should be cautious, usually starting at the low end of the dosing range, reflecting the greater frequency of decreased hepatic, renal, or cardiac function, and of concomitant disease or drug therapy.

Do not administer unless solution is clear and seal is intact.

Drug/Laboratory Test Interactions

There have been reports of positive test results using the Bio-Rad Laboratories Platelia *Aspergillus* EIA test in patients receiving Baxter gluconate containing Plasmalyte solutions. These patients were subsequently found to be free of *Aspergillus* infection. Therefore, positive test results for this test in patients receiving Baxter gluconate containing Plasmalyte solutions should be interpreted cautiously and confirmed by other diagnostic methods.

ADVERSE REACTIONS

Reactions which may occur because of the solution or the technique of administration include febrile response, infection at the site of injection, venous thrombosis or phlebitis extending from the site of injection, extravasation, and hypervolemia.

If an adverse reaction does occur, discontinue the infusion, evaluate the patient, institute appropriate therapeutic countermeasures, and save the remainder of the fluid for examination if deemed necessary.

DOSAGE AND ADMINISTRATION

As directed by a physician. Dosage is dependent upon the age, weight and clinical condition of the patient as well as laboratory determinations.

Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration whenever solution and container permit.

All injections in VIAFLEX plastic containers are intended for intravenous administration using sterile equipment.

Additives may be incompatible. Complete information is not available. Those additives known to be incompatible should not be used.

Consult with pharmacist, if available. If, in the informed judgment of the physician, it is deemed advisable to introduce additives, use aseptic technique. Mix thoroughly when additives have been introduced. Do not store solutions containing additives.

HOW SUPPLIED

PLASMA-LYTE A Injection pH 7.4 (Multiple Electrolytes Injection, Type 1, USP) in VIAFLEX plastic containers is available as shown below:

Code	Size (mL)	NDC
2B2544	1000	NDC 0338-0221-04
2B2543	500	NDC 0338-0221-03

Exposure of pharmaceutical products to heat should be minimized. Avoid excessive heat. It is recommended the product be stored at room temperature (25°C); brief exposure up to 40°C does not adversely affect the product.

DIRECTIONS FOR USE OF VIAFLEX PLASTIC CONTAINER

Warning: Do not use plastic containers in series connections. Such use could result in air embolism due to residual air being drawn from the primary container before administration of the fluid from the secondary container is completed.

To Open

Tear overwrap down side at slit and remove solution container. Some opacity of the plastic due to moisture absorption during the sterilization process may be observed. This is normal and does not affect the solution quality or safety. The opacity will diminish gradually. Check for minute leaks by squeezing inner bag firmly. If leaks are found, discard solution as sterility may be impaired. If supplemental medication is desired, follow directions below.

Preparation for Administration

1. Suspend container from eyelet support.
2. Remove plastic protector from outlet port at bottom of container.
3. Attach administration set. Refer to complete directions accompanying set.

To Add Medication

Warning: Additives may be incompatible.

To add medication before solution administration

1. Prepare medication site.
2. Using syringe with 19 to 22 gauge needle, puncture resealable medication port and inject.
3. Mix solution and medication thoroughly. For high density medication such as potassium chloride, squeeze ports while ports are upright and mix thoroughly.

To add medication during solution administration

1. Close clamp on the set.
2. Prepare medication site.
3. Using syringe with 19 to 22 gauge needle, puncture resealable medication port and inject.
4. Remove container from IV pole and/or turn to an upright position.
5. Evacuate both ports by squeezing them while container is in the upright position.
6. Mix solution and medication thoroughly.
7. Return container to in use position and continue administration.

Baxter Healthcare Corporation

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PACKAGE LABEL.PRINCIPAL DISPLAY PANEL

FOR HI-RES INK JET:

2B2544X 14-1000 ML

VIAFLEX® CONTAINER

PLASMA-LYTE® A INJ PH 7.4 (MULTIPLE
ELECTROLYTES INJ, TYPE 1, USP)

EXP
XXXXX

SECONDARY BAR CODE

(17) YYMM00 (10) XXXXX

LOT
XXXXX

PRIMARY BAR CODE

(01) 50303380221047

NOTE: YY=Year, MM=Month and date will always be 00.
Lot and Exp. Date added at time of printing.
Secondary bar code human readable is variable and will be
added at time of printing. The parenthesis are not
encoded in actual bar code.

PLASMA-LYTE® A Injection pH 7.4 (Multiple Electrolytes Injection, Type 1, USP) Carton Label

2B2544X 14-1000 ML

VIAFLEX® CONTAINER

PLASMA-LYTE® A INJ PH 7.4 (MULTIPLE
ELECTROLYTES INJ, TYPE 1, USP)

EXP

XXXXX

SECONDARY BAR CODE

(17) YYMM00 (10) XXXXX

LOT

XXXXX

PRIMARY BAR CODE

(01) 50303380221047

NOTE: YY=Year, MM=Month and date will always be 00. Lot and Exp. Date added at time of printing.
Secondary bar code human readable is variable and will be
added at time of printing. The parenthesis are not
encoded in actual bar code.

LOT

EXP

2B2544
NDC 0338-0221-04

1

Plasma-Lyte A Injection pH 7.4 (Multiple Electrolytes Injection Type 1 USP)

2

3

1000 mL

4

EACH 100 mL CONTAINS 526 mg SODIUM CHLORIDE USP 502
mg SODIUM GLUCONATE USP 368 mg SODIUM ACETATE
TRIHYDRATE USP 37 mg POTASSIUM CHLORIDE USP 30 mg
MAGNESIUM CHLORIDE USP pH ADJUSTED WITH SODIUM
HYDROXIDE pH 7.4 (6.5 TO 8.0) mEq/L SODIUM 140
POTASSIUM 5 MAGNESIUM 3 CHLORIDE 98 ACETATE 27
GLUCONATE 23 OSMOLARITY 294 mOsmol/L (CALC) STERILE
NONPYROGENIC SINGLE DOSE CONTAINER ADDITIVES MAY BE
INCOMPATIBLE CONSULT WITH PHARMACIST IF AVAILABLE WHEN
INTRODUCING ADDITIVES USE ASEPTIC TECHNIQUE MIX THOROUGHLY
DO NOT STORE DOSE INTRAVENOUSLY AS DIRECTED BY A
PHYSICIAN SEE DIRECTIONS CAUTIONS SQUEEZE AND INSPECT
INNER BAG WHICH MAINTAINS PRODUCT STERILITY DISCARD IF LEAKS
ARE FOUND MUST NOT BE USED IN SERIES CONNECTIONS DO NOT
USE UNLESS SOLUTION IS CLEAR Rx ONLY STORE UNIT IN
MOISTURE BARRIER OVERWRAP AT ROOM TEMPERATURE
(25°C/77°F) UNTIL READY TO USE AVOID EXCESSIVE HEAT SEE
INSERT

5

6

7

VIAFLEX CONTAINER PL 146 PLASTIC
BAXTER PLASMA-LYTE VIAFLEX AND PL 146 ARE
TRADEMARKS OF BAXTER INTERNATIONAL INC

FOR PRODUCT INFORMATION 1-800-933-0303

Baxter

BAXTER HEALTHCARE CORPORATION
DEERFIELD IL 60015 USA
MADE IN USA

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Plasma-Lyte A Injection pH 7.4 (Multiple Electrolytes Injection Type 1 USP) 1000mL Container Label

2B2544

NDC 0338-0221-04

Plasma-Lyte A

Injection pH 7.4

(Multiple Electrolytes Injection**Type 1 USP)****1000 mL**

Each 100 mL contains 526 mg Sodium Chloride USP 502
mg Sodium Gluconate USP 368 mg Sodium Acetate
Trihydrate USP 37 mg Potassium Chloride USP 30 mg
Magnesium Chloride USP pH adjusted with Sodium
Hydroxide pH 7.4 (6.5 to 8.0) mEq/L Sodium 140
Potassium 5 Magnesium 3 Chloride 98 Acetate 27
Gluconate 23 Osmolarity 294 mOsmol/L (calc) Sterile
Nonpyrogenic Single dose container Additives may be
incompatible Consult with pharmacist if available When

introducing additives use aseptic technique Mix thoroughly
Do not store Dosage Intravenously as directed by a
physician See directions Cautions Squeeze and inspect
inner bag which maintains product sterility Discard if leaks
are found Must not be used in series connections Do not
use unless solution is clear Rx Only Store unit in
moisture barrier overwrap at room temperature
(25°C/77°F) until ready to use Avoid excessive heat See
insert

VIAFLEX container PL 146 plastic

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For product information 1-800-933-0303

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Baxter Healthcare Corporation

Deerfield IL 60015 USA

Made in USA